NUMBER AND LETTER SERVES C.VALLIAPPAN 1) 21, 23, 27, 33, "?" find "?" 39111054 195111355 a) 37 8) मा () म3 d) मं9 e) 54 2) 23 27 33 ? "MULTIPLES OF 2 IS SERIES"
ADDING OFTHAT SERIES" 2.9 68, 67, 64, 59, "?" Find "?" as 52 6) 53 c) 54 0) 56 e) 58 68 G7 GH 59 9 "SUBRACTING OF \$13,5,7 PATTERN"
ODD NUMBERS 8) 0, 2, 6, 8, 16, 30, 54, "?" find "?" (59-7=52 a) 74 6.) 88 (a.) 100 0-1110 e) 122 0+2=2 0+2+6=8 2+8+6=16 6 +8+16=30 8 + 16+ 30 = 54 (16+30 +54=100) 4, "?", 144, 400, 900, 1764 a) 25 16736 C) 49 d) 100 e) 102 HI"?", 144, 400, 900, 1764 (212, "(1)", (12)2, (20) , (30)2, (42)2 (81) 12-6=6 2+4=6 (a) 12- $50 = (6)^2 = 36$ 5) 2, 10, 30, 68, "?" . Find "?" a) 125 16/130 c) 128 d) 135 e) 104 2,10,30,68,11911 $(3)^3 + 3 = 30$ $(4)^3 + 4 = 68$ n3+n is general formula $(1)^3+1=2$ $(2)^3+2=10$ towere Force (513+5= 125+5= 130 69 6, 11, 21, 36, 56, 119" grind "?" a) 42 6) 51 , c/81 d) 91 e-) 98 (56+25=81

7) 8,14, 26, 44, 68, "?" Find "7" L-VALLIAPPAN a-171 6)78 c) 84 Jary 8 e,1102 39W054 8 IN 26 HM 68 ? (68+30 = 98 195111355 8) 3, 9, 6, 36, 30, "?" Find "?" 396,34,30,28,24,130 e) 646 396,34,30,28,24,130 e) 28 a) 23 b) 26 (-) 20 d/22 e-) 28 36 34 30 28 34 ? 24-2 = 22 10) 100 100 97, 90, 76, 55, 12". Find "?" 21) 22 e.) 32 21) 28 b) 27 c.) 26 d.) 25 e.) 32 97 90 76 55? Subract 55-28=27 11. 1,6, 15, "?", 45,66, al. eind "?" a) 25 6-126 C) 27 NAM 28 E-113 5 9 13 17 21 25 5 9 13 17 21 25 12) 51 11 123, 47, 95 1"?" find"?" a) 190 18/191 (1)161 2/169 5 11 23 47 95 ,? (95+96=191 13) 7, 12, 19, 28, 39, "?" find"?" a)52 b-150 e)51 d.) 48 e.)66 12 19 28 39 ? (39413 = 52 14.) 2, 6, 12, 11711 130 d.) 26 e.) .37 a.) 18 b.1 24 12720 d.) 26 e.) .37 a.) 18 b.1 24 12720 d.) 26 e.) .37 previous v Add multiples 862 with (12+8=20) 15) 24, 6, 18, 9, 36, 9, 24, 11?". Find "?" 0-) 24 18/12 c-) 8 d') 6 e-) 26 (24, 6) (18,9) (36,9) (24, $\frac{7}{9}$) 18/9=2 36/9=4 (24/2=12)

16) 21 1, 4, 3, 6, 5, 8, "?" Find "?" a.) d 6.) 10 16.] 7 d.18 e) 12 L. VALLIAPPAN 39111054 195111355 43658 (5+a=7 17.) 1, 4, 27, 256, "?". Find "?" d.) 1225 e.) 1339 a.) 625 pr/3125 c.) 3025 Balonys to 2nd series 1 1 A 27 256 ? (m) is general formula (2)2 (3)3 (4)4 (5)5 18) 285, 253, 221, 189, "?". Faind ?". 159 a.) 122 b.) 153 galls 7 1.7 151 e.) 159 14.) 8131 11, 14, 25, 12, 11 81 11 81 113 al 50 M39 c.129 d.111 e.) Ha 8+3=11 11+3=14 "?", 3396 · Find "?" 1411=25 Q5+14=39 e. 1560 d. 1530 e-7 1449 20:13,8,27,112, ×7565 6) 452 328 (QXI)+1=3 (3×7) +2=8 (8×3)+3 =27 (27×4)+4=112 (112×5)+5 = 565 21) 2, 9, 28,65, "?". Find "?" a.7 121 6.7 195 Lessas di 103 e.797 general formula as (m3+1) (n=5 = 125 + 1= 126 1=1 -) 1+1=2 N=2 5 8+1=9 N=3->27+1=28 22.) 31,13, 45, 54, "?", 63. Find "?" N=4 9 64+1 =65 12936 6754 C)61 2758 E149 31 -> change to 13 ("?" > change to 63 > change to 36 45 -> Change to 54

23) 8, 27, 64, "?". Find (13" a) 216 61224 c.164 pt.1125 e)123 L-VALL ZAPPAN 39111054 (n) is general formula 195111355 (2)3=8 (4)3=64 (3)3=27 (5)3=125 QH) 6,9,12, 15, 15, 18, "?". Find "?" 6, 9, 12, 15 / 15, 18, 21 multiples of 3. 25) 107, 917, 82, 62, "?" Find "?" 107 97 82 62 9 Subract 5

107 97 82 62 9 Subract 5

107 98 82 62 9 Subract 5

62-25 = 137.

26.) 30, 68, 130, 222, 121, 520, 738. Find 2

26.) 30, 68, 130, 222, 121, 520, 738. 0-1420 103350 c) 250 J-) 280 e-) 128 General formula is 13+11 $9 \cdot n = 3 \Rightarrow 3^{3} + 3 = 30$ $n = H \Rightarrow \mu^{3} + H = 68$ $n = H \Rightarrow \mu^{3} + H = 68$ 27) 2, 2, 29, 38, H7, "9". Find "?"

a-159 6/56 c-152 d-158 e-160 219 = 29 29+ 9=38 38+9=47 28) 17, 43, 81, 131, "?". Find "?"
a) 27 = a) 375 b) 468 C-1300 , 12-1193 e.) 234 ? (131+62=193 181 131 17 H3 8 50 62 12 12 12 17" Field (13," a) 15.5 6116-5 0-118.5 dy 17.5 e-118.5 29) 3.5, 7, 10.5, 14, 3.5 7 10.5 14 } 3.5 3.5 3.5 3.5 30) 3, 128, 6, 64, 9, 12, 16, 15, 8. find and 32 bill2 ci) 108 di) 72 ei) 64 3 28 6 64 9 7 12 16 15 8 $2^{3} = 8$, $2^{4} = 16$, $2^{5} = 32$, $2^{6} = 64$, $2^{7} = 128$.

317 8, 16, 28, 44, "?" find "?" a) 62 Mbu e166 d.160 e-168 L-VALL IAPPAN 39111054 198111355 2008 8 16 28 44 ? Add multiples of 4. (44+25=64 32-) Q, 8, 18, 32, 50, 12". Find "?" a.) 64 16172 C-)70 d.) 68 e-188 28 18 32 50 13. add 4. 50+22 = 72 33) 1,3,7,15,31,"?" . Find "?" a) 37 b) 36 c) 73 dx63 P) 56 37531? 31+32 = 63 163834.) 0, 3, 8, 15, 24, "?", 48 Find "?", a.) 41 b) 29 c.) 39 pd. 35 e., 39 038 15 an 3 48 (8H+11 = 3:5) 35.) 4, 11, 30, 67, 128, "?". Find "?" par 219 6.1228 c.1231 d.1237 e.)260 n=6-763+3=219 General Formula: 13+3 13+3=4 n=2-723+3=11 n= 3-733 +3=30 N=4 -> 13+3=67 36) 5, 6, 9, 14, 21, 11 ? 11 . Find 9? "

a-128 129 30 2131 d-129 e-132 n=5 > 53 +3 =128 569 m 2 ? 21+9=30 37) 5, 16, 51, 158, "?". Find "?" a) 1452 b) 483 101481 dil (454 e) 987 . 5x3 + 1 = 16 16×3+3=51 51x3 + 5 = 158 158 ×3+7 7481

38) 11, 29, 55, "?", 131 - Faird"?"
a-110 6-1 81 Let 89 d.) 78 e-196 L.VALLIAPPAN 39111054 198111355 131 11 29 55 55+34 = 89 39-) 198, 194, 185, 169, "?". Faind "?" 0192 67136 galler dis 112 es 110 198 194 185 169 1848 000 169-25 = (144 (3)² (4)² (5)² (2)2 40) 01 11 12 13, 5, 8, 13, 21, ? di) 36 e.138 VA134 6135 433 41) 17,36,74, 150,"?",606. Find"?".

a) 250 6.1303 (-) 300 (2) 302, e-) 303 17×2 +2 = 36 36 × 2 + 2 = 74 (50x2 + 2=302) 3 Answer 42.) Find the missing number in the series 4,18, --, 100,180,294. a-) 32 6136 9548 di 40 e.) 52 & General Formula = 13-12 23-2 = 8-4=4 43-42 = 64-16=48) -> Answer $5^3 - 5^2 = 125 - 25 = 100$ 2 = 216-36=180 73-72 = 343-49 = 294 83-87 = 512-64=448